



Attorney Docket: BHT/3111-178

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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REVIEWS  
6.20.02

Applicant : WANG  
Application No. : 09/880,942  
Filed : June 15, 2001  
Title : THREE-DIMENSIONAL DISPOSITION STRUCTURE  
OF AN ELECTRIC BOARD COMPONENT  
Group Art Unit : 2827  
Examiner : T. Dinh  
Docket No. : BHT/3111-178

Honorable Commissioner for Patents  
Washington, DC 20231

TECHNOLOGY CENTER 2800

JUN 19 2002

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### AMENDMENT

Sir:

In response to the Office Action of March 15, 2002, please amend the above-identified application as follows:

#### IN THE SPECIFICATION:

Paragraph beginning at prenumbered line 27 of page 2 has been amended as follows:

--[0018] The several elements includes several plane elements 21 and 23, which have at least one short connection leg 211 and 231, respectively, and several elevated elements 22 and 24, which have at least one long connection leg 221 and 241, respectively. The plane elements 21 and 23 are welded onto the electric board 1 and their bottom sides are close to the electric board 1, and the elevated elements 22 and 24 are welded onto the electric board 1 so that their bottom sides are above the corresponding plane elements 21 and 23, respectively.--

A1

**IN THE DRAWINGS:**

Please amend Figures 1A-1C and 2C as illustrated in red on the attached photocopies.

**IN THE CLAIMS:**

Please cancel claims 1 and 2 without prejudice to or disclaimer of the subject matter recited therein.

Please add new claim 3 as follows:

- Ad
- 5 --3. (New) A three dimensional structure of an electric board comprising:
- a) a planar electric board having opposite facing first and second sides;
  - b) a plurality of first, plane electrical elements, each having a bottom side and at least one first connection leg, mounted on the first surface of the planar electric board such that the bottom sides are adjacent to the first surface; and,
  - c) a plurality of second, elevated electrical elements, each having a bottom side and being mounted on the planar electric board by at least one second connection leg having a length greater than a length of the first connection legs, whereby each of the plurality of second electrical elements is disposed so that the
- 10 bottom side is above at least one of the plurality of first, plane electrical elements.--

**REMARKS**

**Claim Rejections**

Claims 1 and 2 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Boada Fonts (5,801,925).

**Drawings**

Applicant proposes to amend Figures 1A-1C and 2C as illustrated in red on the attached photocopies. The proposed amendments to Figures 1A-1C include indicating that these figures illustrate the "Prior Art" as noted by the Examiner on page 2 of the outstanding Office Action. The amendments to Figure 2C include

deleting the extraneous numbers and identifying previously disclosed elements by different indicating numbers. Applicant's specification has also been amended to fully describe the re-numbered elements. Approval of the proposed drawing changes is respectfully requested.

**New Claim**

Claims 1 and 2 have been canceled and new claim 3 has been added to this application. The new claim is directed toward a three dimensional structure of an electric board comprising a planar electric board having opposite facing first and second sides, a plurality of first, plane electrical elements, each having a bottom side and at least one first connection leg, mounted on the first surface of the planar electric board such that the bottom sides are adjacent to the first surface, and a plurality of second, elevated electrical elements, each having a bottom side and being mounted on the planar electric board by at least one second connection leg having a length greater than a length of the first connection legs, whereby each of the plurality of second electrical elements is disposed so that the bottom side is above at least one of the plurality of first, plane electrical elements. This is believed to be clearly illustrated in Applicant's Figure 2C wherein it can be seen that the plurality of second, elevated electrical elements (22, 24) are connected to the planar electric board (1) by connection legs (221, 241) such that they are disposed above the first, plane electrical elements (21, 23) which are connected to the planar electric board by connection legs (211, 231) of shorter length than the connection legs (221, 241) connecting the second, elevated electrical elements to the planar electric board.

It is submitted that the new claim defines subject matter that is patentably distinguishable over the cited prior art reference. It is not believed that Boada Fonts discloses the concept of mounting first and second pluralities of electrical elements to a common planar electric board by connection legs having different lengths such that a plurality of second electrical elements are disposed so that their bottom sides are above at least one of the plurality of first electrical elements. It appears that the reference utilizes either a plurality of boards, one board mounted to the other board to increase the usable space, or utilizes a flexible board having a folded portion to

accommodate a variety of electrical elements. In none of the embodiments disclosed by Boada Fonts are the pluralities of first and second electrical elements mounted on a common surface of the planar electric board as in Applicant's claim.

It is axiomatic in U.S. patent law that, in order for a reference to anticipate a claimed structure, it must clearly disclose each and every feature of the claimed structure. Applicant submits that Boada Fonts does not disclose each and every feature of Applicant's new claim 3 and, therefore, could not possibly anticipate this claim under 35 U.S.C. § 102. It is furthermore submitted that, in the complete absence of any disclosure in Boada Fonts that the specifically disclosed structure could be modified, that this reference could not render obvious Applicant's new claim 3 under 35 U.S.C. § 103.

**Version With Markings To Show Changes Made**

Attached hereto is a marked-up version of the changes made to the application by the current amendment. The attached document is captioned VERSION WITH MARKINGS TO SHOW CHANGES MADE.


**Summary**

In view of the foregoing amendments and remarks, Applicant submits that this application is now in condition for allowance and such action is respectfully requested. Should any points remain in issue, which the Examiner feels could best be resolved by either a personal or a telephone interview, it is urged that Applicant's local attorney be contacted at the exchange listed below.

Respectfully submitted,

Date: June 17, 2002

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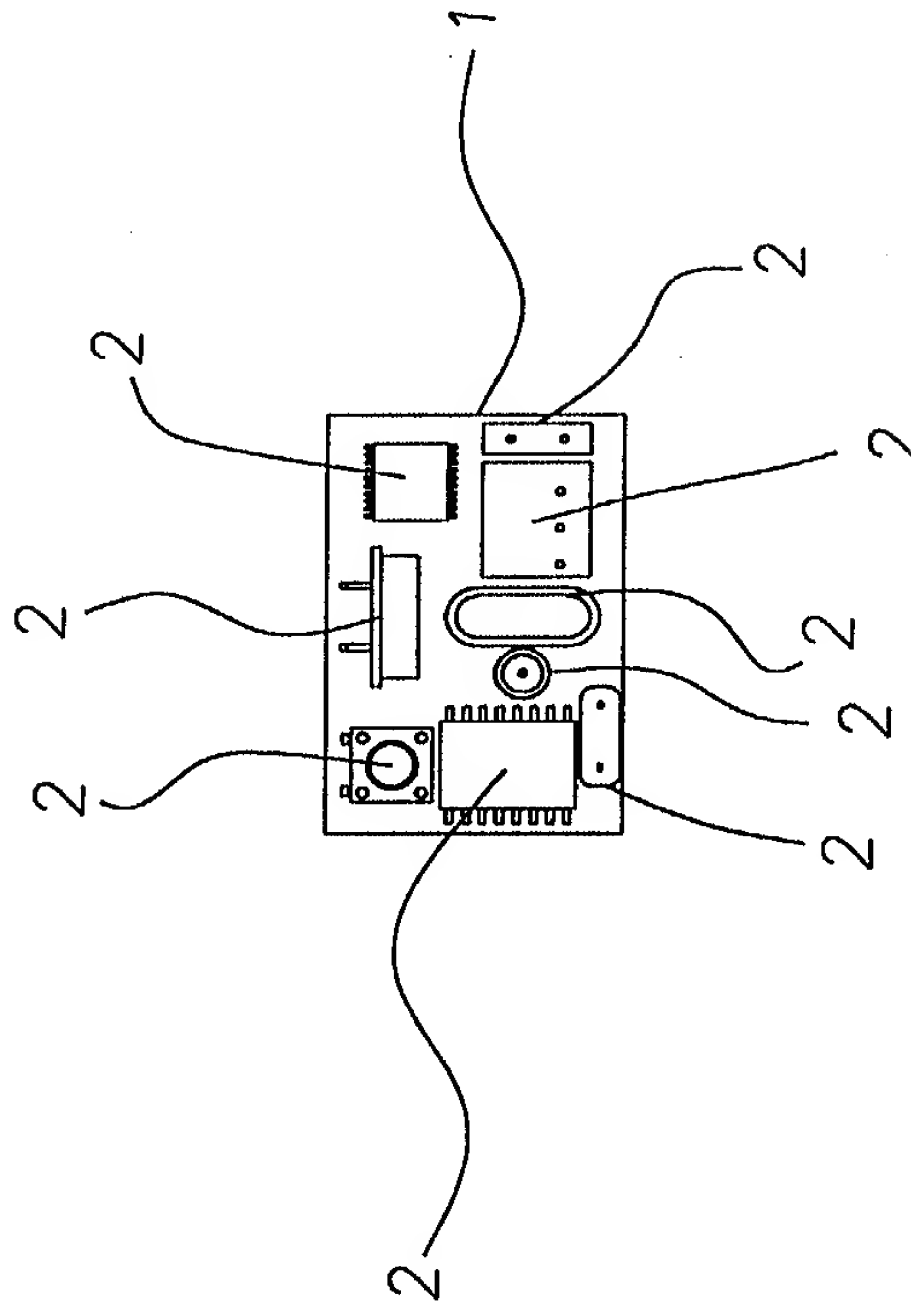


FIG. 1A (PRIOR ART)

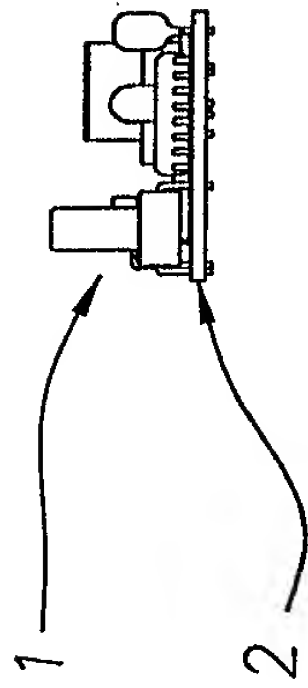


FIG. 1B (PRIOR ART)

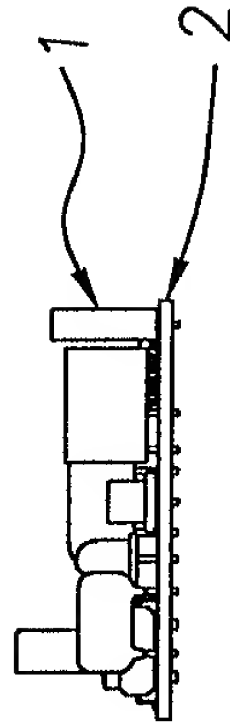


FIG. 1C (PRIOR ART)

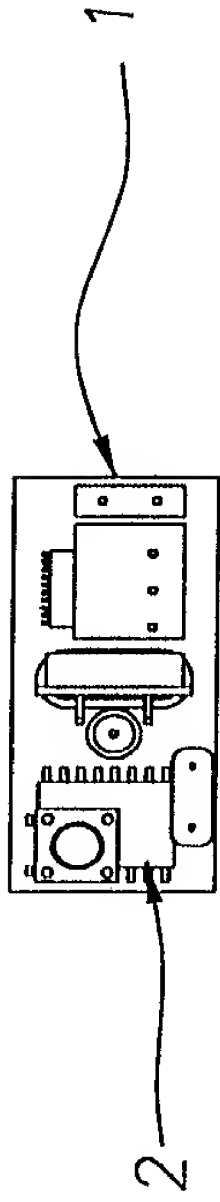


FIG. 2A

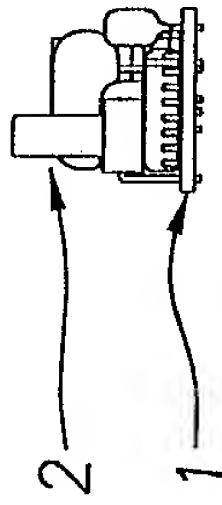


FIG. 2B

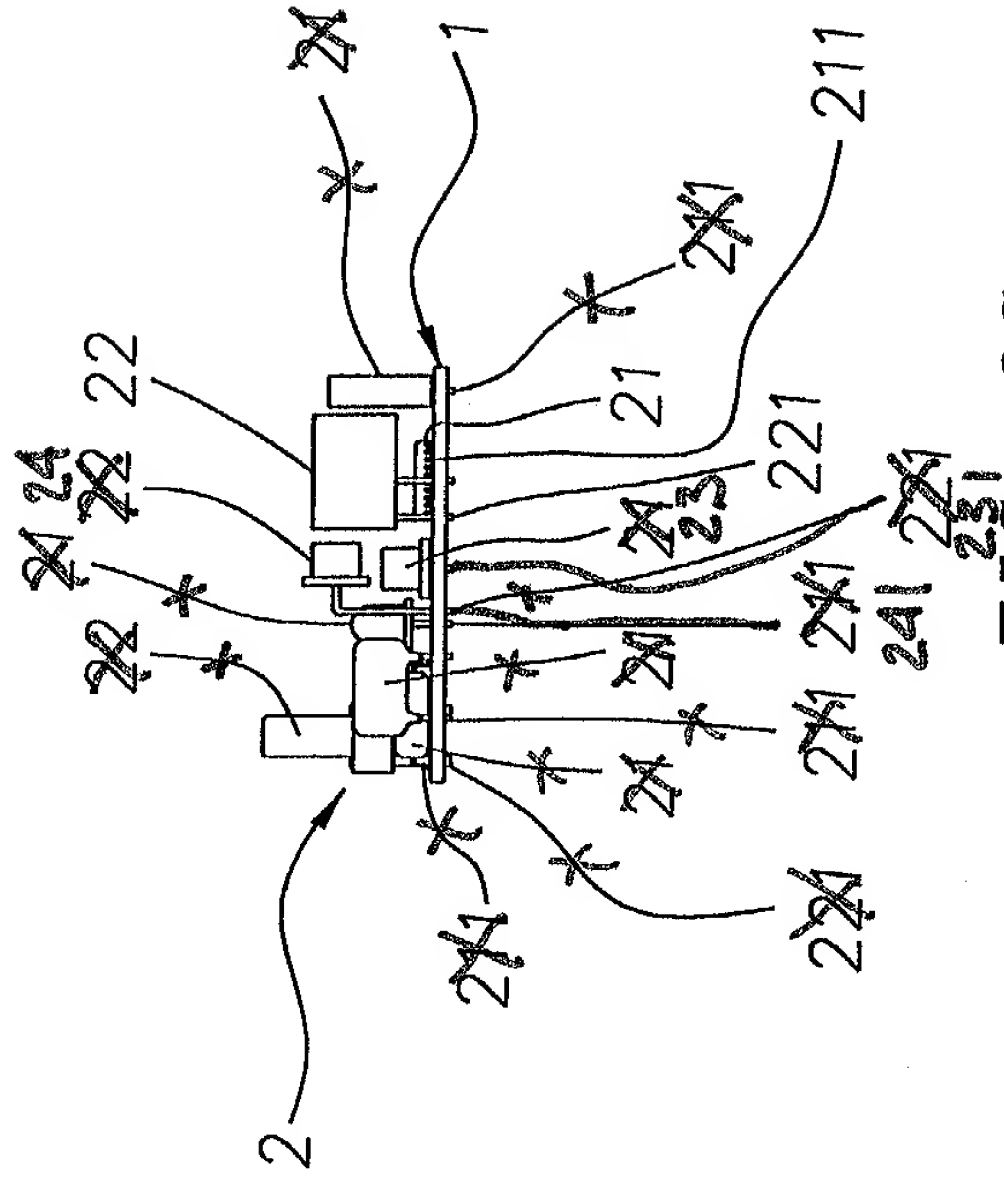


FIG. 2C